	SD Mode			SPI Mode		
Pin	**Name**	**Type**	**Description**	**Name**	**Type**	**Description**
1	CD/DAT3[2]	I/O/PP[3]	Card Detect/Data Line	CD	I	Chip Select (Active Low)
			Bit3			
2	CMD	PP	Command/Response	DI	I/PP	Data In
3	VSS_1	S	Supply Voltage Ground	VSS	S	Supply Voltage Ground
4	VDD	S	Supply Voltage	VDD	S	Supply Voltage
5	CLK	I	Clock	SCLK	I	Clock
6	VSS_2	S	Supply Voltage Ground	VSS_2	S	Supply Voltage Ground
7	DAT0	I/O/PP	Data Line (Bit 0)	DO	O/PP	Data Out
8	DAT1	I/O/PP	Data Line (Bit 1)	RSV		
9	DAT2	I/O/PP	Data Line (Bit 2)	RSV		
10	NC[4]	I/O/PP	For Future Use	NC		For Future Use
11	NC[4]	I/O/PP	For Future Use	NC		For Future Use

1. S: Power supply / I: input / O: Output using push-pull drivers / PP: I/= using push-pull drivers
2. The extended DAT Lines (Dat1-Dat3) are input on power up. They start to operate as Dat lines after SET_BUS_WIDTH command. The Host shall keep its own Dat1-Dat3 lines in input mode, as well, while they are not used. It is defined so, in order to keep compatibility to MultiMedia Cards.
3. After power up this line is input with 50Kohm pull-up (can be used for card detection or SPd mode selection). The pull-up should be diconnected by user, during regular data transfer, with SET_CLR_CARD_Detect (ACMD42) command.

Physical Dimension Specifications (Units in mm)

Type	Measurement
Length	21,5mm+/- 0,1mm
Width	20,0mm+/- 0,08mm
Thickness	1,4mm+/- 0,1mm
Weight	1,0g max.

Power Consumption

- Read: <30mA
- Write: <30mA
- Standby: <100uA

Environment Specifications

Type		Standard
Temperature	Operating	-25°C to 85°C
	Non-Operating	-40°C to 85°C
Humidity	Operating	8% to 95%, non-condensing
	Non-Operating	8% to 95%, non-condensing
Vibration	Operating	15G peak-to-peak Max.
	Non-Operating	15G peak-to-peak Max.
Shock	Operating	1000G Max.
	Non-Operating	1000G Max.
Altitude	Operating	80.000 feet Max.
	Non-Operating	80.000 feet Max.

Bestell-Nr.:/Order No.: MSXXXSDC-SD1

Memory Solution
Memorysolution GmbH
Waldstrasse 32
D-79206 Breisach
Fon +49(0)7667-9469-00
Fax +49(0)7667-9469-69
www.takems.de
info@takems.de

Branch office Berlin
Fon +49(0)30-417189-68
Fax +49(0)30-417203-21

Branch office Frankfurt
Fon +49(0)6104-4068-30
Fax +49(0)6104-4068-50

Branch office Iberia
Fon: +3498-1782694
Fax: +3498-1782694

Branch office Hamburg
Fon +49(0)4101-7827-02
Fax +49(0)4101-7827-10

Branch office München
Fon: +49(0)89-904055-40/-41
Fax: +49(0)89-904055-45

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